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UTILITY PATENT APPLICATION TRANSMITTAL

Only for nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.

501030.01

October 18, 2001

First Inventor or Application Identifier

Timothy B. Cowles et al.

Title FOR DYNAMIC RANDOM ACCESS MEMORIES

LOW POWER AUTO-REFRESH CIRCUIT AND METHOD

Express Mail Label No.

EL 646072570 US

APPLICATION ELEMENT	S
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See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Box Patent Application Commissioner of Patents Washington, D.C. 20231

CD-ROM or CD-R in duplicate, large table or Computer

Nucleotide and/or Amino Acid Sequence Submission

Statement verifying identity of above copies

1.	(Submit an original and a duplicate for fee processing)			cessing)	7.	
2.		Applicant(s) Clain	n(s) Small Entity Status		8.	
3.	X	Specification	[Total Pages]	12		

Specification [Total Pages] 42 (preferred arrangement set forth below) - Descriptive Title of the Invention

[Total Pages]

Copy from a prior application (37 CFR 1.63(d))

Signed statement attached deleting

see 37 CFR 1.63(d)(2) and 1.33(b)

inventor(s) named in the prior application,

(for continuation/divisional with Box 18 completed) **DELETION OF INVENTOR(S)**

7.

(if applicable, all necessary) Computer-Readable Form (CRF) a.

Program (Appendix)

Specification Sequence Listing on: i. [] CD-ROM or CD-R (2 copies); or ii. [] paper

ACCOMPANYING APPLICATION PARTS

Certification Under 35 U.S.C. 122(b)(2)(B)(i)

Assignment Papers (cover sheet & document(s))

- Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the Invention

- Cross References to Related Applications

- Brief Summary of the Invention - Brief Description of the Drawings (if filed)

Newly executed (original or copy)

- Detailed Description - Claim(s)

Oath or Declaration

- Abstract of the Disclosure Drawing(s) (35 USC 113) [Total Sheets]

6

11. (when there is an assignee)

9.

10.

37 CFR 3.73(b) Statement

Power of Attorney

Total Pages 39

Copies of IDS Citations

12. 2

English Translation Document (if applicable)

Preliminary Amendment 13. Return Receipt Postcard

Information Disclosure 15.

Statement (IDS)/PTO-1449 Certified Copy of Priority Document(s) (If foreign priority is claimed)

Customer No. 27,076

Other: Certificate of Express Mail Check

	<u> </u>	
18.	If a CONTINUING APPLICATION, check appropriate box and su	pply the requisite information below and in a preliminary amendment
	Continuation Divisional Continuation-In-Part (0	CIP) of prior Application No.: Filed
	Prior application information: Examiner	Group / Art Unit

Incorporation By Reference (useable if box 5b is checked)

Application Data Sheet (37 C.F.R. 1.76)

The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

CORRESPONDENCE ADDRESS

Edward W. Bulchis, Esq. **Dorsey & Whitney LLP** 1420 Fifth Avenue, Suite 3400 Seattle, Washington 98101-4010 (206) 903-8800 phone (206) 903-8820 fax

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Edward W. Buichis

REGISTRATION NO.

Date

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Timothy B. Cowles, Brian M.

Attorney Docket No.: 501030.01

Shirley and Greg A. Blodgett

Filed

: October 18, 2001

Title

: LOW POWER AUTO-REFRESH CIRCUIT AND METHOD FOR DYNAMIC

RANDOM ACCESS MEMORIES

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Box Patent Application Commissioner of Patents Washington, D.C. 20231

Sir:

I hereby certify that the enclosures listed below are being deposited with the United States Postal Service "EXPRESS MAIL Post Office to Addressee" service under 37 C.F.R. § 1.10, Mailing Label Certificate No. EL 646072570 US, on October 18, 2001, addressed to Box Patent Application, Commissioner of Patents, Washington, DC 20231.

Respectfully submitted,

DORSEY & WHITNEY LLP

/ for West Courier

EWB:dms

Enclosures:

Postcard

Check

PTO/SB/05 Utility Patent Application Transmittal

Application Data Sheet

Fee Transmittal Sheet (+ copy)

General Authorization

Preliminary Amendment

Specification, Claims, Abstract (42 pages)

6 Sheets of Drawings (Figures 1-6)

Declaration

Election and Power of Attorney

Form PTO-1595

Assignment

FEE TRANSMITTAL SHEET (FOR FY 2001) METHOD OF PAYMENT (Check One) 1. [X] The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No.: 50-1266; Deposit Account Name: DORSEY & WHITNEY LLP 2. [X] Check Enclosed FEE CALCULATION BASIC FILING FEE Arge Entity Small Entity Fee	Express Mail No. Filing Date First Named Inventor Group Art Unit Examiner Atty. Docket Number	EL 646072570 US Concurrently Herewith Timothy B. Cowles et al. Not Yet Assigned Not Yet Assigned 501030.01	
FEE TRANSMITTAL SHEET (FOR FY 2001) METHOD OF PAYMENT (Check One) 1. [X] The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No.: 50-1266; Deposit Account Name: DORSEY & WHITNEY LLP 2. [X] Check Enclosed FEE CALCULATION BASIC FILING FEE Arge Entity Small Entity Fee	Filing Date First Named Inventor Group Art Unit Examiner Atty. Docket Number	Concurrently Herewith Timothy B. Cowles et al. Not Yet Assigned Not Yet Assigned	
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106 330 206 165	117 920 217	460 Extension for reply within 3 rd month	\$
108 740 208 370 Reissue Filing Fee 314 160 214 80 Provisional Filing Fee Subtotal (1) \$740 EXTRA CLAIM FEES	118 1,440 218	720 Extension for reply within 4 th month	\$
114 160 214 80 Provisional Filing Fee Subtotal (1) \$740 EXTRA CLAIM FEES	128 1,960 280	980 Extension for reply within 5 th month	\$
Subtotal (1) \$740 EXTRA CLAIM FEES	120 320 220 121 280 270	160 Filing a brief in support of an appeal 140 Request for oral hearing	\$ \$
EXTRA CLAIM FEES	121 280 270 148 110 248	55 Terminal Disclaimer Fee	-
s	140 110 240	55 Petition to revive – unavoidable	\$
Ecoment Claims Dries Extra Eco Eco Boid	141 1,280 241	640 Petition to revive – unintentional	\$
	142 1,280 242	640 Utility/Reissue issue fee (+ advance copies)	\$
Total 110 - 20 = 90 x \$18 = \$1620 Ind. 9 - 3 = 6 x \$84 = \$504	143 460 243	230 Design issue fee (+ advance copies)	\$
Ind. 9 - 3 = 6 x \$84 = \$504	122 130 122	130 Petitions to the Commissioner Petitions related to provisional	\$
Subtotal (2) \$ 2124	123 50 123 126 180 126	applications 180 Submission of IDS	- \$
Large Entity Small Entity	581 40 8a	Recording each patent assignment 40 per property (times number of	\$40
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103 18 203 9 Claims in excess of 20	Other fee (specify)	(RCE)	\$
102 84 252 42 Independent claims in excess of 3 104 280 204 140 Multiple dependent Claim	, , , ,	Subtotal (3)	\$40
169 80 208 40 Reissue independent claims over original patent 110 18 210 9 Reissue claims in excess of 20 and over original patent		Total Amount of Payment:	\$2904
Submitted by:			

Name: Edward W. Bulchis Reg. No.: 26,847 Telephone: (206) 903-8800

Signature: Award N Bulchu Date: October 17, 200